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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/015,752	12/17/2001	Markus Schmid	53037	2839	
26474	7590 01/21/2004		EXAMINER		
KEIL & WEINKAUF			YOON, TAE H		
1350 CONNECTICUT AVENUE, N.W. WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER	
	, _ 0		1714		
			DATE MAILED: 01/21/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

ਭ • (•		Applicat	ion No.	Applicant(s)				
Office Action Summary		10/015,7	'52	SCHMID ET AL.				
		Examine	r	Art Unit				
		Tae H Yo		1714				
Period fo	The MAILING DATE of this commun or Reply	ication appears on th	e cover sheet t	with the correspondence address				
THE I - Externance - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOMAILING DATE OF THIS COMMUNI assions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this community period for reply specified above is less than thirty (3) period for reply is specified above, the maximum stere to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no ending the state of the	vent, however, may a atutory minimum of the will expire SIX (6) MO plication to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communication ABANDONED (35 U.S.C. § 133).	n.			
1) 🛛	Responsive to communication(s) file	ed on <u>17 December 2</u>	<u>2003</u> .					
2a) <u></u> ☐	This action is FINAL . 2	b)⊠ This action is r	ion-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims	·		•				
4)🖂	4)⊠ Claim(s) <u>1-12</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□	5) Claim(s) is/are allowed.							
· · · · · · · · · · · · · · · · · · ·	☑ Claim(s) <u>1-12</u> is/are rejected.							
8)∐	Claim(s) are subject to restrict	ction and/or election	requirement.					
Applicati	ion Papers							
•	The specification is objected to by the							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
•	ınder 35 U.S.C. §§ 119 and 120		1 051106	0.440() (D (D				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.								
Attachmen								
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P mation Disclosure Statement(s) (PTO-1449) P	PTO-948) · aper No(s)		v Summary (PTO-413) Paper No(s)				

U.S. Patent and Trademark Office PTOL-326 (Rev. 11-03)

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The marked up copy of the claim 1 does not show the additional R¹ group for the formula 1a, and thus is confusing. Also, it contains the phrase "in which the substituents and indices have the following meaning:" twice.

The examiner does not find the copy of WO 00/20464 listed in PTO-1449, and thus said WO 00/20464 has been crossed-out.

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 12 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The recited "Use of" is non-statutory subject matter, and "A method of using" is suggested.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-12 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

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The recitation of an additional R¹ group for the formula 1a constitutes NEW MATTER. Applicant asserts that said additional R¹ group for the formula 1a is necessarily present and facilitates formation of a coordinative bond between the nitrogen – E – and the transitional metal – M- in this formula. However, there is no support for applicant's statement that said additional R¹ group for the formula 1a is necessarily present and the formula 1a without said additional R¹ group would not act as a catalyst. Applicant must show a specific support for the amendment rather than a general statement.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 5-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The recited "olefin" in claim 5 lacks an antecedent basis. The recited "styrene" in claims 6 and 7 is not an olefin since it is an aromatic (not aliphatic) hydrocarbon.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 11 and 12 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Walther et al (US 5,574,091), or FR 98 12476.

An invention in a product-by-process claim is a product, not a process. See <u>In re Brown</u>, 459 F2d 531, 173 USPQ 685 (CCPA 1972) and <u>In re Thorpe</u>, 777 F2d 695, 697, 227 USPQ 964 (Fed. Cir. 1985). Since the PTO does not have equipments to conduct tests, it is fair to require applicant to shoulder the burden of proving that his polymer differs from those of the cited art. <u>In re Best</u>, 195 USPQ 430,433 (CCPA 1977).

There is no limitation, such as molecular weight, polydispersity, physical properties or concentration, to the claimed polymer and aqueous dispersion.

Walther et al teach aqueous dispersion of olefin copolymers and film-forming thereof in abstract and examples. FR teaches the same in examples. Thus, the instant invention lacks novelty.

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Claim 11 is rejected under 35 U.S.C. 102(a) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Bauers et al (Macromolecules, 2/3/2001, 34 1165-1171).

Bauers et al teach aqueous dispersion of olefin copolymers in abstract and examples. Thus, the instant invention lacks novelty.

Claims 1-12 are rejected under 35 U.S.C. 102(a) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over WO 01/44325.

WO teaches the instant process and aqueous dispersion of olefin copolymers in abstract. Applicant states that WO used water-soluble catalyst system due to the presence of hydrophilic groups in the ligands of the complex at page 8 of the sepecification. However, the instant complexes also permits the presence of hydrophilic groups such as amino groups NR¹⁴ R¹⁵ for R¹⁻⁹ and thus, the instant invention lacks novelty.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tae H Yoon whose telephone number is (571) 272-1128. The examiner can normally be reached on Mon-Thu.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (571) 272-1119. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Tae H Yoon

Primary Examiner Art Unit 1714

January 9, 2004